CLAIMS

1. A picture display apparatus comprising

    virtual picture storage means for storing a virtual picture;

    a plurality of information processing means for carrying out specified processing and for rendering a picture pertinent to said specified processing on said virtual picture;

    re-rendering range calculating means for calculating, in case a picture rendered by a preset one of said plural information processing means is re-rendered, the smallest range including a picture prior to re-rendering and a picture subsequent to re-rendering, as a re-rendering range; and

    re-rendering requesting means for requesting picture re-rendering to other information processing means rendering a picture or pictures in said re-rendering range.

2. The picture display apparatus according to claim 1 wherein a rendering position for a picture rendered by said information processing means is predetermined and wherein said rendering control means calculates the re-rendering range based on a predetermined rendering position.

3. A picture display method for displaying pictures, generated by a plurality of applications, on a sole real picture surface, comprising

    a re-rendering range calculating step of calculating, in case of re-rendering a picture generated by one of said applications, the smallest range including a picture

prior to re-rendering and a picture subsequent to re-rendering, as a re-rendering range;

a re-rendering requesting step of requesting re-rendering of a picture to the application which has generated the picture included in said re-rendering range; and

a displaying step of displaying a picture, rendered in said re-rendering step, on a real picture surface.

4. The picture display method according to claim 3 wherein a rendering position for a picture rendered by said information processing means is predetermined and wherein said rendering control step calculates the re-rendering range based on said predetermined rendering position.

5. A picture display system comprising

virtual picture storage means for storing a virtual picture surface;

at least one application for carrying out specified processing and for rendering a picture pertinent to said specified processing on said virtual picture surface; and

a picture server for controlling the picture rendering function of said application;

said picture server calculating a re-rendering range of re-rendering of said window by said application and requesting re-rendering of said re-rendering range to another application rendering a window in said re-rendering range.